

SHELENSKIY, O.F.

Determining the heat conductivity of glass plastics by the  
structure and properties of their components. Plast. massy  
no. 12:33-37 '65 (MIRA 19:1)

L 16513-66 ENT(1)/ENT(m)/EPF(n)-2/T/ENF(j)/ETC(m)-6/EWA(1) WJ/RM

ACC NR: AP6001499

SOURCE CODE: UR/0191/65/000/012/0033/0037

AUTHOR: Shlenskiy, O. F.

ORG: none

TITLE: <sup>21, 44, 55</sup> Determination of thermal conduction in glass-reinforced plastic from the structure and properties of the components

SOURCE: Plasticheskiye massy, no. 12, 1965, 33-37

TOPIC TAGS: thermal conduction, glass textolite, fiber glass

ABSTRACT: A formula is developed for high accuracy determination of thermal conduction in glass-reinforced plastic. The formula has an advantage over other methods in that it takes into consideration structural characteristics of the investigated material. It is summarized by equation I:

$$\lambda = 0,4\lambda_n + 0,2\lambda_g + 0,8 \frac{\lambda_n\lambda_g}{\lambda_n + \lambda_g},$$

where  $\lambda$  is the coefficient of thermal conduction,  $\lambda_2$  = conduction coefficient

Card 1/2

UDC: 678.06--419:677.521.01:536.2

45  
44  
54455 8

L 16513-66

ACC NR: AP6001499

of the binding agent,  $\lambda_H$  = conduction coefficient of a single filament calculated from the relationship between the total thermal conductivity of the fiber packing unit, and  $\frac{\lambda_1}{\lambda_2}$ ,  $\lambda_1$  is the conduction coefficient of the fiber, with the thickness of the binder as a parameter. For example, in the case of thermal conduction calculation for glass textolite of density  $\rho = 1.84$  g/cc, the deviation between the calculated and experimental values is  $\sim 6.1\%$ . The above approach applies also to polymeric materials having similar thermal conduction coefficients (textolites, asbestos textolites, etc.). Orig. art. has: 6 figures and 32 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004

Card 2/2 SM

L 22047-66 EWT(1)/EWT(m)/EWP(j)/T/EWA(1) RM/WW  
ACC NR: AP6003589 SOURCE CODE: UR/0170/66/010/011/0101/0105

66  
B

AUTHOR: Shlenskiy, O. F.

ORG: Institute of Chemical Machinery Construction, Moscow (Institut khimicheskogo mashinostroyeniya)

TITLE: Calculation of the heat conductivity process in polymers subjected to thermal decomposition

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 1, 1966, 101-105

TOPIC TAGS: polymer, heat conductivity, thermal decomposition, heat property

ABSTRACT: The author studies the state of the surface layers of a polymer plate when heat is applied to one of the sides. According to temperature characteristics, three regions are distinguished in the plate being heated (Fig. 1). In the temperature region below the thermal decomposition temperature (region I) the heat conductivity process is defined by the heat conductivity equation

$$c \gamma \frac{\partial t}{\partial \tau} = \frac{\partial}{\partial x} \left( \lambda \frac{\partial t}{\partial x} \right), x > x_0. \quad (1)$$

Card 1/3

UDC 536.212

L 22047-66

ACC NR: AP6003589

O

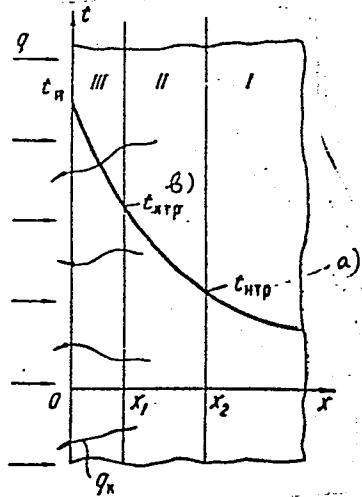


Fig. 1. Temperature distribution in the surface layers of a polymer subjected to heating above the temperature of thermal decomposition.

Card 2/3

L 22047-66  
 ACC NR: AP6003589

Endothermic decomposition of the polymer occurs in region II, accompanied by its gasification. The gaseous product of thermal decomposition shift toward the heated surface. The heat- and mass-conductivity process in region II is defined by

$$\bar{c} \gamma \frac{\partial t}{\partial \tau} = \frac{\partial}{\partial x} \left( \lambda \frac{\partial t}{\partial x} \right) - \frac{\partial}{\partial x} (c_2 t_2 q') + Q_{vp} \frac{\partial \gamma}{\partial \tau}; \quad \frac{\partial \gamma_2}{\partial \tau} = \frac{\partial}{\partial x} q' + \frac{\partial \gamma}{\partial \tau}; \quad x_1 < x < x_2. \quad (2)$$

The thermal coefficients in equation (2) depend on the temperature and on the heating rate, since the vapor formation process which determines the heat conductivity and other thermal properties of the material is time dependent. In region III, which is congruent to the surface of the plate, the thermal decomposition process ceases, and, consequently, the volumetric runoff of heat ceases. The heat- and mass-transfer equations in this region are

$$\begin{aligned} c \gamma \frac{\partial t}{\partial \tau} &= \frac{\partial}{\partial x} \left( \lambda \frac{\partial t}{\partial x} \right) - \frac{\partial}{\partial x} (c_2 t_2 q'); \\ \frac{\partial \gamma_2}{\partial \tau} &= \frac{\partial}{\partial x} q'; \quad 0 < x < x_1. \end{aligned} \quad (3)$$

SUB CODE: 11, 20 / SUBM DATE: 19Jul65 / ORIG REF: 007

Card 3/3 PB

ACC NR: AP6036353

SOURCE CODE: UR/0138/66/000/011/0022/0025

AUTHOR: Lavrent'yev, V. V.; Shlenskiy, O. F.

ORG: Department of Experimental and Theoretical Physics, Second Moscow State Medical Institute im. N. I. Pirogov (Kafedra eksperimental'noy i teoreticheskoy fiziki, 2-y Moskovskiy Gosudarstvennyy meditsinskiy institut)

TITLE: Method of determining the mechanical characteristics of highly elastic materials under complex stress

SOURCE: Kauchuk i rezina, no. 11, 1966, 22-25

TOPIC TAGS: elastic deformation, complex stress, shell deformation

ABSTRACT: A method has been developed for calculating stresses and relative strains in a specimen in a two-dimensional stressed state. The necessary relationships are derived by considering a shell into which is converted a specimen exposed to the action of air pressure. The behavior of the surface of a shell of SKS-30 rubber film 1 mm thick was photographed. Formulas are derived for the maximum tension in the specimen. The whole process of deformation of the specimen is divided into two periods; a correlation exists between the uniaxial and biaxial stressed states in the first and second periods of tension. Therefore, using the derived relationships for the biaxial stressed state, one can determine the characteristics of the specimen under uniaxial deformation. Results of the study made it possible to construct an

Card 1/2

UDC: 678.4:620.172.2

ACC NR: AP6036353

instrument for testing specimens under complex stress. Orig. art. has: 4 figures,  
1 table and 16 formulas.

SUB CODE: 20/ SUBM DATE: 16Mar65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

SHLENSKIY,V., kapitan 3-go ranga

Improve instruction in the flag semaphore. Voen.znan. 31,  
no.5:20 My '55. (MIRA 8:9)  
(Signals and signaling)

SHLENSKIY, V., sud'ya respublikanskoy kategorii

Victory of Ukrainian athletes in composite events. Voen. znan.  
35 no.11:34-35 N '59. (MIRA 12:12)

1. Glavnnyy sekretar' vsesoyuznykh sorevnovaniy Dobrovol'nogo  
obshchestva sodeystviya armii, aviatsii i flotu SSSR.  
(Novorossiysk--Aquatic sports)

SHLENSKIY, V.A., inzhener.

Mechanization of carving on rosettes. Der. i lesokhim.prom. 3  
no.6:26-27 Je '54! (MIRA 7:7)

1. Moskovskaya mebel'naya fabrika No.1.  
(Woodworking machinery)

L 50738-65 EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) PI-4 TK/JD/HM

ACCESSION NR: AP5015325

UR/0286/65/000/009/0081/0081

620.115.82

29  
B

AUTHOR: Yermolov, V. A.; Kazakevich, V. I.; Chukhrov, D. L.; Shlenskiy, V. A.

TITLE: A solder specimen for tensile tests. Class 42. No. 170718

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 81

TOPIC TAGS: solder, tensile test, test equipment

ABSTRACT: This Author's Certificate introduces a solder specimen made up of a rod and a sleeve for tensile tests. The specimen is designed for determining the mechanical properties of a solder joint and for producing comparable test results. On the surface of the rod is an annular groove of a definite size which is filled with solid solder. On the end of the rod is a continuous groove through which the solder flows after heating of the sample. The rod and the sleeve are threaded together.

ASSOCIATION: Predpriyatiye gosudarstvennogo komiteta po oboronnoy tekhnike SSSR  
(Enterprise of the State Committee for Defense Technology SSSR)

Card 1/2

L 50738-65

ACCESSION NR: AP5015325

ENCL: 00

SUB CODE: IE

SUBMITTED: 28Sep63

OTHER: 000

NO REF SOV: 000

*mc*  
Card 2/2

L 00842-67 EWT(1) IJP(c)

ACC NR: AR6011093

SOURCE CODE: UR/0272/65/000/011/0072/0072

AUTHORS: Belousov, N. A.; Bondarenko, V. A.; Volodin, V. P.; Shlenskiy, Ye. M.48  
BTITLE: Methods of increasing the operational characteristics of ultrasonic generators

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 11.32.608

75

REF SOURCE: Tr. N.-i, tekhnol. in-t, vyp. 8, 1964, 23-28

TOPIC TAGS: ultrasonic frequency, high frequency, electric transformer, ferrite, semiconductor rectifier, electron tube grid, ultrasonic generator/ UZG ultrasonic generator

ABSTRACT: A modernization of the ultrasonic vacuum-tube generators of the UZG series is reported. The efficiency of the ultrasonic generators is increased by using semiconductor diodes in the circuits of the plate rectifiers. Semiconductor diodes have a longer life than ion rectifiers. Losses in the high-frequency circuits can be considerably reduced by using transformer winding and ferrite cores. For the regulation of power, the most promising is a regulation circuit with the use of a power transformer with step regulation of voltage. The use of such a transformer in conjunction with smooth regulation in the grid circuit permits smooth regulation of power within the required limits without a substantial change in the efficiency of the ultrasonic generators. Circuits are given which permit reduction of plate

Card 1/2

UDC: 389:534-8.232.004.12

L 00842-67  
ACC NR: AR60114093

losses and a corresponding increase in efficiency. The development of a circuit with automatic tuning of the frequency of the generator to the frequency of mechanical resonance of the converter is reported. Ultrasonic-generator systems are examined with the aim of improving their operational characteristics. 4 illustrations.  
[Translation of abstract]

SUB CODE: 09, 14

Card 2/2 pb

L 04218-67 EWT(1) IJP(c)  
ACC NR: AR6015877 (N)

SOURCE CODE: UR/0275/65/000/012/V009/V010

AUTHOR: Belousov, N. A.; Bondarenko, V. A.; Shlenskiy, Ye. M.

34

B

TITLE: Ultrasonic generators of the UZG series

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 12V62

REF SOURCE: Tr. N.-i. tekhnol. in-t, vyp. 8, ch. 1, 1964, 5-15

TOPIC TAGS: ultrasonic emitter, ultrasonic equipment, electric generator unit

ABSTRACT: Powerful UZ generators produced at the present time are described (of types UZG-10M, UZG-6, and UZG-2.5). After modernization, they were renamed UZG-10U, UZG-6M, and UZG-2.5M. In the development and modernization of generators of the UZG series, a number of common solutions have been used: application of circuits with self-excitation, power supply from anode circuits, from regulated rectifiers, stabilization of the power supply of the heating circuits, and application of regulated field rectifiers. Technical data of six generators of the UZG series are given, all operating in the range from 18 to 22 kc, and also simplified electrical circuits of the modernized generators. As a result of modernization, an increase in capacity produced and in the efficiency of the generators has been achieved. [Translation of abstract] S. B.

SUB CODE: 09.13  
Card 1/1

UDC: 534.232-8

VASILEVSKIY, P.F., kand. tekhn. nauk; DEMAKOV, A.Ye.; PLEKHANOV, P.N.; ASSONOV, A.D.; VLASOV, V.I.; KANEVSKAYA, T.B.; SHILENTSOV, K.G.; RYZHIKOV, A.A.; RUBTSOV, N.N., zasl. deyatl' nauki i tekhniki RSFSR, doktor tekhn. nauk prof.; red.; MARTENS, S.L., red. izd-va; EL'KIND, V.D., tekhn. red.

[Handbook on founding; shaped steel casting] Spravochnik liteishchika; fasonnoe stal'noe lit'e. [By] P.F.Vasilevskii i dr. Pod obshchei red. N.N.Rubtsova. Moskva, Mashgiz, 1962. 611 p. (MIRA 15:6)

(Founding--Handbooks, manuals, etc.)

SHLEPAKOV, V.M.

Two cases of pregnancy and labor in collagenoses. Akush. i gin. 38  
no.5:97-99 S-0 '62. (MIRA 17:11)

1. Iz otdeleniya patologii beremennosti (zav. - prof. S.M. Bekker)  
Instituta akusherstva i ginekologii AMN SSSR.

22955  
S/125/61/000/007/011/013  
D040/D113

1-2300

AUTHORS: Pokhodnya, I.K. and Shlepakov, V.N.

TITLE: Powder wire with basic core for semiautomatic open air arc welding

PERIODICAL: Avtomaticheskaya svarka, no. 7, 1961, 87-88

TEXT: The Institut elektrosvarki im. Ye.O. Patona (Electric Welding Institute im. Ye.O. Paton) in 1959 developed a new open air arc welding process using a powder wire electrode. This ПП-АН1 (PP-AN1) wire contained elements producing shielding slag and gas in the arc gap. The weld metal had mechanical properties corresponding to a weld metal produced by Э-42(E-42) and Э-46 (E-46) electrodes ГОСТ 9467-60 (GOST 9467-60). Further experiments at the Institute led to the development of a ПП-АН 2(PP-AN2) powder wire that produces metal corresponding to the specifications for Э-50 А (E-50A) electrodes, i.e. high mechanical properties for critical joints. The PP-AN2 wire is used for welding carbon steel with reversed polarity d.c. Wire from 1.2 up to 2.0 mm in diameter can be used in any position, and wire from 0.2 to 3.0 mm mainly for bottom or inclined welds. Welds are well

Card 1/2

22955

Powder wire with basic .....

S/125/61/000/007/011/013  
D040/D113

shaped, the slag crust separates easily, spatter is only slight and the arc is steady. An important advantage is high welding speed and high welding current. The fusion rate of 3.0 mm wire at 320 amp is 16.5 g/amp-hr, and at 490 amp it is 22.3 g/amp-hr. The high welding properties and productivity of the wire are reached owing to the new  $MgCO_3$  -  $CaF_2$  -  $SiO_2$  slag system. This system can also be used for electrode coating. Welding was carried out using an A-537 (A-537) semiautomatic machine fitted with a special hose and wire holder. A ПС-500 (PS-500) generator was used for 3 mm wire, and a 3П7,5/30 (3P7.5/30) generator for 1.6 mm wire. The percentage composition of the elements in the weld metal was as follows: 0.07-0.09 C, 0.55-0.60 Mn, 0.15-0.20 Si, <0.025 S, <0.025 P, and <0.025 N<sub>2</sub>. In conclusion, the authors state that the wide application of the new wire will considerably rationalize welding operations. [Abstracter's note: Essentially complete translation]. There are 1 table and 1 Soviet-bloc reference.

Card 2/2

S/019/62/000/012/049/079  
A156/A126

AUTHORS: Pokhodnya, I.K.; Shlepakov, V.N.; Suptel', A.M.

TITLE: A mixture for powder wires

PERIODICAL: Byulleten' izobreteniy, no. 12, 1962, 46

TEXT: Class 21h, 3016. No. 148171 (736558/25-8 of July 3, 1961). This mixture for powder wires, on the basis of the CaF<sub>2</sub>-SiO<sub>2</sub> system, ferro-alloys and iron powder, is novel in that, to increase the strength of the weld joints, it is supplemented with 2-8% of MgCO<sub>3</sub>, the initial composition being as follows (in %): fluorspar concentrate 2 - 7; feldspar 1 - 3; ferromanganese 0.2 - 0.8; ferrotitanium 2 - 4; iron powder 7 - 25; the remainder is steel strip.

[Abstracter's note: Complete translation]

Card 1/1

SINYAGIN, I.I., doktor sel'skokhozyaystvennykh nauk, red.; DMITRIYEVA, A.I., red.; YEMEL'YANOV, F.V., red.; SOKOLOV, G.N., red.; SUVALOV, I.S., red.; SHLEPANOV, V.M., red.; SHUMKOV, V.A., red.; ANTONOVA, N.M., tekhn.red.

[Papers of the anniversary session of the Lenin All-Union Academy of Agricultural Sciences dedicated to the 40th anniversary of the Great Socialist October Revolution] Materialy iubileinoi sessii Vsesoiuznoi akademii sel'skokhoziaistvennykh nauk imeni V.I.Lenina, posviashchennoi 40-iy godovshchine Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1958. 900 p. (MIRA 13:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Glavnyy uchenyy sekretar' Prezidiuma Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (VASKhNIL); chlen-korrespondent (for Sinyagin).

(Agricultural research) (Forestry research)

SHIPINOV, N.A., kand.sel'skokhoz.nauk, red.; SHLEPANOV, V.M., red.;  
ANTONOV, N.M., khudozh.tehnich.red.

[Herbicides in agriculture; a collection of research papers  
on the chemical method of controlling weeds] Gerbitsidy v  
sel'skom khoziaistve; sbornik nauchno-issledovatel'skikh rabot  
po khimicheskому metodu bor'by s sorniakami. Pod red. N.A.  
Shipinova. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1959. 198 p.  
(MIRA 13:3)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina.

(Herbicides)

DMITRIYEVA, A.I., red.; YEMEL'YANOV, F.V., red.; SHLEPANOV, V.M., red.;  
ANTONOVA, N.M., tekhn. red.

[Work results of Soviet agricultural academies during 1959 and  
basic problems of research for the coming years; materials of  
the extended session of the Council for the Coordination of  
Agricultural Research of the Lenin All-Union Academy of Agri-  
cultural Sciences] Itogi raboty respublikanskikh akademii  
sel'skokhoziaistvennykh nauk za 1959 god i osnovnye problemy  
nauchno-teoreticheskikh issledovanii na blizhaishie gody;  
materialy rasshirennogo zasedania Soveta po koordinatsii  
nauchnoi deiatel'nosti po selskomu khoziaistvu Vsesoyuznoi  
akademii sel'skokhoziaistvennykh nauk imeni V.I.Lenina 25-  
26 marta 1960 goda. Moskva, Izd-vo M-va sel'.khoz. SSSR,  
1960. 166 p. (MIRA 14:5)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina. (Agricultural research)

KONYUSHKOV, N.S., red.; RABOTNOV, T.A., red.; TSATSENKIN, I.A., red.;  
SHLEPANOV, V.M., red.; ANTONOVA, N.M., tekhn. red.

[Methods of experimental work on meadows and pastures] Meto-  
dika opytrykh rabot na senokosakh i pastbishchakh. Pod obshchei  
red. N.S.Koniushkova, T.A.Rabotnova, I.A.Tsatsenkina. Moskva,  
Sel'khozgiz, 1961. 287 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut kor-  
mov.

(Pastures and meadows)

DARAKOV, Nikolay Nikolayevich; SHLEPANOV, V.M., red.; GUREVICH, M.M.,  
tekhn. red.

[Growing hybrid seed corn on large areas; practices in growing  
hybrid seed corn in Krasnodar Territory] Vyrashchivanie gibrid-  
nykh semian kukuruzy na bol'sikh ploshchadiakh; opyt vyrashchi-  
vania gibridnykh semian kukuruzy v Krasnodarskom krae. Moskva,  
Sel'khozizdat, 1962. 31 p. (MIRA 15:11)

(Krasnodar Territory—Hybrid corn)  
(Krasnodar Territory—Seed production)

KLYACHNIKOV, V.M., kand. sel'khoz. nauk; GOLUBEV, I.F., kand.  
sel'khoz. nauki SHLEPANOV, V.M., red.

[Apparatus and equipment for demonstration farms] Pribory  
i oborudovanie dlia oporno-pokazatel'nykh khoziaistv.  
Moskva, Sel'khozizdat, 1962. 183 p. (MIRA 17:10)

NAYDIN, Pavel Georgiyevich, prof.; SHLEPANOV, V.M., red.;  
SOKOLOVA, N.N., tekhn.red.

[Fertilizing grain and pulse crops] Udobrenie zernovykh  
i zernobobovykh kul'tur. Moskva, Sel'khozizdat, 1963.  
261 p. (MIRA 17:1)

NOVIKOV, A.Ye.; TASHCHEV, Ye.N.; MINENKOVA, V.R., red.; SHLEPANOV,  
V.M., red.

[Work experience of agricultural technical schools;  
some problems of theoretical and industrial training]  
Iz opyta raboty sel'skokhoziaistvennykh tekhnikumov;  
nekotorye voprosy teoreticheskogo i proizvodstvennogo  
obucheniia. Moskva, Kolos, 1964. 220 p. (MIRA 19:1)

PETERBURGSKIY, A.V., prof.; ASAROV, Kh.K., dots.; PLESHKOV, B.P.,  
dots.; SMIRNOV, F.M., dots.; VOROB'YEV, F.K., dots. [deceased];  
GULYAKIN, I.V., prof.; YUDIL, F.A., dots.; KLECHKOVSKIY,  
V.M., akademik, red.; SHLEPANOV, V.M., red.

[Agrochemistry] Agrokhimiia. Moskva, Kolos, 1964. 527 p.  
(MIRA 18:1)

PLESHKOV, Boris Pavlovich; KLECHKOVSKIY, V.M., akademik; OZEROV,  
V.M., red.; SHLEPANOV, V.M., red.

[Biochemistry of agricultural plants] Biokhimia sel'skogo  
khozaiistvennykh rastenii. Moskva, Kolos, 1965. 446 p.  
(MIRA 18:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk  
imeni V.I.Lenina (for Klechkovskiy).

СТИЛЕВЫЕ РИСУНКИ  
TOVPENETS, Ye.S., kandidat tekhnicheskikh nauk; PISKUN, V.I., inzhener;  
SHLEPCHENKO, L.B., inzhener; GULYACHENKO, P.P., inzhener; LEONOV, L.I.,  
inzhener; POTAPOV, I.F., inzhener.

Improving the quality of the cutting teeth of cutting machines  
and of combined mining machines. Ugol' 29 no.10:23-26 O '54.(MLRA 7:11)

1. Donetskiy industrial'nyy institut (for Tovpenets & Piskun) 2. Krasnoluchskiy mashinostroitel'nyy zavod (for Shlepchenko, Gulyachenko & Leonov) 3. Kombinat Stalinugol' (for Potapov)  
(Coal--Mining machinery)

SHLEPETENE, Yu.A. [Slepeliene, J.]

Some data on the dynamics of the nematodes of table beets. Vop.  
ekol. 7:207 '62. (MIRA 16:5)

1. Institut zoologii i parazitologii AN Litovskoy SSR, Vil'nyus.  
(Nematode diseases of plants)  
(Beets--Diseases and pests)

SHILOHTEME, Yu.A. [Slepeticne, J.]

Nematode infestation of red clover in eroding soil. Trudy  
Sel'm. lab. 16:161-168 '65. (MERA 19:2)

RABINOVICH, A.Ye., starshiy nauchnyy sotrudnik; SOLOVOV, F.A.; SHLEPER, S.Yu.

By every means strengthen the industrial base. Transp. stroi.  
14 no.10:7-8 O '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroyitel'stva (for Rabinovich). 2. Starshiy inzh.-ekonomist Vsesoyuznogo nauchno-issledovatel'skogo instituta transportnogo stroyitel'stva (for Solovov).

SHLEPIN, M.M., redaktor; GOLICHENKOVA, A.A., tekhnicheskiy redaktor.

[Houses made of manufactured parts] Doma iz zavodskikh detalej.  
Moskva, izd-vo VTsSPS Profizdat, 1955. 66 p. (MIRA 9:4)  
(Building) (Precast concrete construction)

SEREDNIT'SKIY, A.M.; SHLEPIN, Ye.I., (L'vov)

Remote electric thermometer for constant measurement of body temperature.  
Eksp. khir. 3 no.6:52-53 N-D '58. (MIRA 12:1)  
(THERMOMETERS, MEDICAL)

FEDOROV, M., tekhnik-leytenant puti i stroitel'stva; SHLEPINA, M., red.  
MALEK, Z., tekhn. red.

[For comprehensive savings in building materials] Za  
kompleksnuiu ekonomiuiu stroitel'nykh materialov. Mo-  
skva, Profizdat, 1952. 34 p. (MIRA 16:8)

1. Kamenshchik vtoroy kontory Upravleniya stroitel'stva  
mnogoetazhnykh zdaniy Ministerstva putey soobshcheniya  
(for Fedorov).

(Building materials)

RUDENKO, Fedor Leont'yevich; SHLEPIN, M.M., redaktor; KIESANOVA, N.A.,  
tekhnicheskiy redaktor \_\_\_\_\_

[On an electric mine locomotive] Na shakhtnom elektrovoze. [Moskva]  
Izd-vo VTsSPS Profizdat, 1956. 35 p. (MIRA 9:?)

1. Mashinist elektrovoza shakty no.6 "TSentrosoyuz" (Donbass)  
(for Rudenko)  
(Mine railroads) (Electric locomotives)

ZHEMCHUGOV, Vitaliy Ivanovich, slesar'; SHLAPINA, M.M., redaktor; KIRSANOVА,  
N.A., tekhnicheskiy redaktor

[At the Gorkiy Automobile Plant] Na Gor'kovskom avtozavode. [Moskva]  
Izd-vo VTsSPS Profizdat, 1956. 35 p. (MLRA 10:4)

1. Gor'kovskiy avtozavod imeni Molotova (for Zhemchugov)  
(Gorkiy--Automobile industry)

*Shtrekiy M.M.*

NAYDENOV, S. I. SHUBINA, N.M., redaktori; RAKOV, S. V. - tehnicheskiy redaktor.

[Rapid mining haulage tunnels] Skorostnaya prokhodka shtrekov.  
Donets. Izd-vo VtSSPS Profizdat, 1956. 36 p. (MLRA 9:6)

1.Brigadir prokhodchikov shakty No.1-2 "Nevaya Golubevka" tresta  
"Pervomayskugol'" (Donbass) (for Naydenov).  
(Mining engineering)

TKACHENKO, Vladimir Stepanovich; SHLEPIN, M.M., redaktor; RAKOV, S.I.,  
tekhnicheskiy redaktor

[A shepherd's experience] Iz opyta chabana. [Moskva] Izd-vo  
VTsSPS Profizdat, 1956. 38 p. (MLRA 10:3)

1. Chaban ordena "Znak Pocheta" plemennogo ovtsesovkhoza "Krasnyy  
chaban", Kalanchakskogo rayona, Khersonskoy oblasti.  
(Sheep)

IL'IN, Sergey Semenovich, tokar'; IL'IN, Konstantin Semenovich, tokar';  
SHLEPININA, M.M., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Combining operations in machining parts] Kombinirovanie operatsii  
pri tokarnoi obrabotke detalei. [Moskva] Izd-vo VTsSPS Profizdat,  
1956. 53 p.

1. Moskovskii priborostroitel'nyy zavod (for Il'in, S.; Il'in, K.)  
(Turning)

BRABLIK, Ya.; SHMULEV, A.; SHLEPINA, M.M., redaktor; RAKOV, S.I.,  
tekhnicheskiy redaktor

[Truing metal according to Otokar Vlakh's oxyacetylene method]  
Pravka metalla atsetileno-kislorodnym plamenem po metodu Otakara  
Vlakha. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 64 p. (MIRA 10:2)  
(Sheet-metal work) (Gas welding and cutting)

HAMP. Frantisek, kavaler ordena Respubliky, laureat gosudarstvennoy premii; DAN'KO, Yu.T., inzhener [translator]; AKIMOV, A.V., kandidat tekhnicheskikh nauk, nauchnyy redaktor; TAMBOVTSEV, S.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor; SHLEPIN, M.M., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Grinding shaped parts; improved methods of grinding precision shapes.  
Abridged translation from the Czech] Shlifovanie fasonykh detalei;  
usovershenstvovannye proizvodstvennye metody shlifovaniia tochnykh profilei. Sokrashchennyi perevod s cheskogo IU.T.Dan'ko. [Moskva]  
Izd-vo VTsSPS Profizdat, 1956. 164 p. (MIRA 10:3)  
(Grinding and polishing)

СИЛЯНЧУКИ

DAN'KO, Yu.T., inzh.[translator]; AKIMOV, A.V., kand.tekhn.nauk, red.;  
TAMBOVTSEVA, S.S., red.; SHLEPINNA, M.M., red.; KIRSANOVА, N.A.,  
tekhn.red.

[Ladislav Hauser's multibit turning tool. Translated from the  
Czech] Mnogolezviinyye tokarnye reztsy konstruktsii Ladislava  
Gouzara. Perevod s cheshskogo Iu.T.Dan'ko. [Moskva] Izd-vo VTsSPS  
Profizdat, 1957. 13 p.

(Cutting tools)

PASHKOV, Grigoriy Pavlovich, tokar'; SHLEPIN, M.M., red.; GOLICHENKOVA,  
A.A., tekhn.red.

[My work practice with turning lathes] Moi opyt raboty na  
tokarnom stanke. Izd-vo VTsSPS Profizdat, 1957. 61 p. (MIRA 12:5)

1. Orlovskiy mashinostroitel'nyy zavod imeni Medvedeva (for Pashkov).  
(Lathes)

KAPLAN, Grigoriy Markusovich; SHLEPINA, M.M., red.; GOLICHENKOVA, A.A.,  
tekhn.red.

[Machine tools with hydraulic driving] Gidrovlika zavoevyvaet stanki.  
[Moskva] Izd-vo VTSSPS Profizdat, 1957. 84 p. (MIRA 11:3)  
(Machine tools--Hydraulic driving)

YEVETS, Mikhail Yur'yevich; SHLEPINA, M.M., red.; GOLICHENKOVA, A.A.,  
tekhn.red.

[At the foot of the Zhiguli Hills] U podnozh'ia Zhigulei. [Moskva]  
Izd-vo VTSSPS Profizdat, 1957. 105 p. (MIRA 11:3)  
(Kuybyshev Hydroelectric Power Station)

SHLEPINA, M. M.

KARABEL'NIKOV, Il'ya Aleksandrovich; SHLEPINA, M.M., redaktor; GOLICHENKOVA,  
A.A., tekhnicheskiy redaktor

[Atoms bring life; sketches] Atomy nosut zhizn'; ocherki. [Moskva]  
Izd-vo VTsSPS Profizdat, 1957. 142 p. (MIRA 10:8)  
(Radiotherapy)

KHAKHIN, Vasiliy Izosimovich; SHLEPINA, M.M., red.; GOLICHENKOVA,  
tekhn.red.

[We use metal economically] Ekonomik metall. Izd-vo VTS SPS  
Profizdat, 1958. 25 p. (MIRA 11:12)

1. Razmetchik zavoda "Krasnoye Sormovo" (for Khakhin).  
(Machine-shop practice)

SVIRIN, Ivan Petrovich; IVANOV, Yuriy Nikolayevich; KARLOV, A.Ya.,  
red.; SHLEPIN, M.M., red.; GOLICHENKOVA, A.A., tekhn.red.

[How they build in Magnitogorsk] Tak stroiat v Magnitogorske.  
Izd-vo VTsSPS, 1958. 44 p. (MIRA 12:6)  
(Magnitogorsk--Building)

LEPESHKIN, Dmitriy Dmitriyevich; KOZLOV, S., inzh., konsul'tant;  
SHLAPINA, M.M., red.; SHADRINA, N.D., tekhn.red.

[Our efficiency experts] Nashi ratsionalizatory. Izd-vo  
VTsSPS Profizdat, 1958. 110 p. (MIRA 12:6)

1. Nachal'nik byuro ratsionalizatsii i izobretatel'stva  
Moskovskogo avtozavoda imeni I.A.Likhacheva (for Lepeshkin).  
(Efficiency, Industrial)

KAPLAN, Grigoriy Markusovich; SHLEPIN, M.M., red.; RAKOV, S.I., tekhn.red.

[How new machine tools are designed] Kak sozdaiutsia novye  
stanki. Izd-vo VTsSPS Profizdat, 1958. 122 p. (MIRA 12:1)  
(Machine tools)

PAVLOV, Vasiliy Ivanovich, inzh.-stroitel'; SHLEPIN, M.M., red.;  
SHADRINA, N.D., tekhn.red.

[Daily functions of an economic council] Budni odnogo sov-  
narkhoza. Izd-vo VTsSPS Profizdat, 1958. 193 p. (MIRA 12:1)

1. Zamestitel' predsedatelya soveta narodnogo khozyaystva Yaro-  
slavskogo ekonomicheskogo administrativnogo rayona (for Pavlov).  
(Yaroslavl Province--Economic councils)

SHLEPKOV, B.I.

Using novocaine in insufficient uterine activity; experimental and  
clinical study. Akush.i gin. 33 no.4:14-20 Jl-Ag '57. (MIRA 10:11)

1. Iz akushersko-ginekologicheskoy kliniki No.2 (nach. - prof. V.G.  
Butomo) i kafedry patologicheskoy fiziologii (zach. - prof. V.S.  
Galkin) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova  
(LABOR

acceleration with procaine in animals & man)  
(PROCAINE, ther. use  
labor acceleration in animals & man)

SHLEPKOVA, N.S.; SHLEPKOVA, Z.I.

Developing special methods for quantitative spectral analysis  
using the ST-7 steelometer. Inzh.-fiz.zhur. no.2:64-68  
F '58. (MIRA 13:1)  
(Steel--Spectra) (Silicon--Analysis)

32-8-61/61

New Books.

- Avdeyev B.A. Control machines and plants (text book).  
Investigations of properties of fireproof metals.  
Mashgiz. 1957. (State Publishing House for Engine-  
Building).  
Rabinovich A.N. Automatical control of steel hardness.  
Ivanov A.I. Apparatus and devices for the examination of  
wood.  
Makarov P.A. Nine-channel tensometric plant with remote  
control.

Instruction from the State Standard Publishing House:

- No. 107-56 Examination of instrumental microscopes.  
" 96-50 Examination of fluxmeters .  
" 187-54 Examination of galvanometers.  
" 182-55 Examination of resistance gauging magazines.  
" 274-54 Examination of the colorimeters.

CARD 2/3

New Books.

32-8-61/61

Reports delivered by candidates competing for the title  
of candidate of technical sciences:

Gurvich, A.M. Chromography in preparatory luminophore-chemistry.

Zamanov P.Kh. Methods of the mercurimetric micro-detections of halogenides in the spirits.

Osherovich P.Kh. Application of ionites in phosphorus manure analyses.

Tananayeva A.N. New accelerated method of carbide analysis.

Bezuglyy V.D. Application of the polarographic method for the examination of medicines and half-finished products of the chemical-pharmaceutical industry.

Fedoseyev, P.N. New methods of quantitative determination of the content of C, H, N, S, Cl, Br, and J in organic substances.

AVAILABLE: Library of Congress.

CARD 3/3

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710020-2

SHLEPKOVA, N.S.; SHLEPKOVA, Z.I.

Developing special methods for quantitative spectral analysis  
using the ST-7 steelometer. Inzh.-fiz.zhur. no.2:64-68  
F '58. (MIRA 13:1)  
(Steel--Spectra) (Silicon--Analysis)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710020-2"

SOV/51-6-6-23/34

24(7)

AUTHORS: Pedos, F.Z., Sventitskiy, N.S. and Shlepkova, Z.I.

TITLE: A Low-Voltage Pulse Discharge in Vacuo for Production of Spectra  
(Nizkovol'tnyy impul'snyy razryad v vakume dlya polucheniya spektrov)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 815-817 (USSR)

ABSTRACT: The authors describe several variants of a low-voltage pulse source working in vacuo. One variant is shown in Fig 1A where 1 and 2 are the electrodes and 3 is a porcelain spacer. This source produces, apart from the electrode spectra, also the spectrum of the porcelain spacer. Using an auxiliary electrode (Figs 1B and 1C) it was possible to produce a pulse discharge at inter-electrode separations greater than 5 mm without the porcelain spacer. The variant B is convenient when one of the electrodes has a large flat surface; if both electrodes are of the same diameter then the variant shown in Fig 1C is recommended. The auxiliary electrode 4 may be a carbon or a metal one. Experiments were carried out in vacuo of  $10^{-4}$ - $10^{-5}$  torr and pulses were produced by a bank of capacitors with 5000-50 000  $\mu$ F capacitance. The discharge always started near the auxiliary electrode 4 and then jumped over to the gap between the electrodes 1 and 2. The energy was lost chiefly between the main electrodes. Best results were obtained by using multiple pulses (100-200 times) of comparatively low intensity (using only 5000-8000  $\mu$ F).

Card 1/2

A Low-Voltage Pulse Discharge in Vacuo for Production of Spectra SOV/51-6-6-23/34

The pulse generator circuit is shown in Fig 2; it could be set to produce automatically the required number of pulse and then to switch itself off. Comparison of the spectra obtained in one of the ways described above in the visible, ultraviolet and far ultraviolet regions with the spectra obtained by pulse discharges in air shows that under vacuum-pulse conditions the background between copper electrodes is smaller, the resonance lines Cu I 3247 and Cu I 3274 Å are not self-reversed and the lines Cu III and Cu II are more intense. Spectra DFS-6 spectrograph showed that multiply-ionized atoms were produced. There are 2 figures and 5 references, 3 of which are Soviet and 2 English.

Card 2/2

24(7)

SOV/48-23-9-30/57

AUTHORS: Sventitskiy, N. S., Taganov, K. I., Shlepkova, Z. I.

TITLE: Some Characteristic Features of the Spectroscopical Determination of Oxygen in Titanium

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1118 - 1120 (USSR)

ABSTRACT: In the introduction the low degree of dependence of line intensities on oxygen concentration in titanium is pointed out. The extraction of oxygen and following spectral analysis of the gas mixture would be a more exact method, but this requires the application of platinum troughs and the development of analysis methods in which it is possible to carry out extraction of the gases and excitation of their spectra simultaneously. The low concentration-sensitivity in titanium is assumed to be due to the stability of the titanium oxides which are already present in the alloys or are formed during the discharge. For the purpose of checking the correctness of this assumption, experiments were made with copper powder containing  $TiO_2$  in a concentration of 0.5-5%, and by using various light sources. The experiments showed that the highest intensity

Card 1/3

Some Characteristic Features of the Spectroscopical  
Determination of Oxygen in Titanium

SOV/48-23-9-30/57

ratio  $I_{TiIII}/I_{CuII}$  is obtained by pulsed discharges. Similar experiments were carried out with  $ZrC_2$ , and it could be seen from both results that in the case of pulsed discharges and of sparks, the bound oxygen must enter into the discharge cloud of the light source. Experiments on metallic titanium having an oxygen content of 0.33 - 0.80% are then discussed, which were carried out with pulsed discharges and high-frequency sparks. Again, the line intensities were found to depend only little on the oxygen content. Experiments carried out on technical titanium containing 0.12- 2% oxygen showed a considerable decrease of the concentration sensitivity of the lines. Comparative investigations were carried out on samples with calcium, the Ca-concentration of which varied within the range of 0.30 - 0.48% parallel to that of oxygen. It was found that after high-frequency sparks had been acting for four minutes in hydrogen at normal pressure, the line intensity and the concentration sensitivity increase considerably. Finally, it is found that the oxygen spectrum is sufficiently well excited by pulsed discharges and other light sources, and that the

Card 2/3

Some Characteristic Features of the Spectroscopical  
Determination of Oxygen in Titanium

SOV/48-23-9-30/57

oxygen contained in metallic titanium has only a low degree of concentration sensitivity. Concentration sensitivity may be increased by a reduction of the energy of the excitation pulses. It is assumed that the major part of the oxygen contained in metallic titanium forms oxides on the surface of the electrodes and does not enter into the discharge cloud. There are 2 tables and 5 references, 2 of which are Soviet.

Card 3/3

S/048/62/026/007/030/030  
B117/B144

AUTHORS: Kaporshiy, L. N., Pedos, F. Z., Sventitskiy, N. S.,  
and Shlepkova, Z. I.

TITLE: Atlases of radiation spectra from electric discharge in vacuo

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,  
no. 7, 1962, 968-970

TEXT: Atlases showing spectrum lines of carbon, aluminum, iron, silicon,  
copper, phosphorus, sulfur, titanium, and chromium were established to  
facilitate studies of discharges in vacuo, especially in the short-wave  
region of the spectrum. The spectra were excited with a low-voltage  
pulse generator described earlier (Optika i spektroskopiya, 4, 407 (1958);  
6, 815 (1959)). They were taken on a "Pankhrom 10" aerophotographic film  
having a sensitivity of 1300 ГОСТ 2817-50 (GOST 2817-50) units, in the  
2100-150 Å region using a ΔΦС-6 (DFS-6) spectrograph, in the 7000-3900 Å  
region a ИСП-51 (ISP-51) device with a УФ-84 (UF-84) camera, and in the  
usual ultraviolet region with the ИСП-22 (ISP-22) device. Spectra of the  
following ions were plotted: carbon to C IV; nitrogen to N V, oxygen

Card 1/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710020-2

KAPORSKIY, L.N.; PEDOS, F.Z.; SVENTITSKIY, N.S.; SHLEPKOVA, Z.I.

Atlases of emission spectra of electric discharges in a vacuum.  
Izv. AN SSSR. Ser. fiz. 26 no.7:968-970 Jl '62. (MIRA 15:8)  
(Electric discharges—Spectra)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549710020-2"

SHLEPKOVA Z. I.  
~~Skornyakov, G.A.~~

105

PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960.  
Materialy (Materials of the Third Ural Conference on Spectroscopy)  
copy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip  
inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR.  
Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G.  
Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing  
House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff  
members of spectral analysis laboratories in industry and scientific  
research organizations, as well as for students of related  
disciplines and for technologists utilizing analytical results.

COVERAGE: The collection presents theoretical and practical problems  
of the application of atomic and molecular spectral analysis  
in controlling the chemical composition of various materials  
in ferrous and nonferrous metallurgy, geology, chemical industry,  
and medicine. The authors express their thanks to G. V.  
Chentsova for help in preparing the materials for the press.  
References follow the individual articles.

Materials of the Third Ural Conference (Cont.)	SOV/6181
Kuranov, A. A., and N. P. Ruksha. Spectral determination of impurities in platinum	91
Sin'kov, N. A. Examination of some variants of calculating unknown impurity concentrations by the "additives" method	93
Fishman, I. S., and F. K. Sattarova. Chemical-spectral determination of carbides and intermetallic compounds in nickel alloys	99
Sukhenko, K. A., V. S. Grigor'yeva, I. S. Lindstrem, N. S. Sventitskiy, and P. P. Galonov. Methodology for spectral determination of oxygen in titanium and its alloys	101
Popov, B. V. Use of spectral analysis at the Ural Auto- motive Plant	102
Shlepkova, Z. I. Determination of phosphorus in copper alloys with the CT-7 stylometer	104

Card 8/15

GUDKOVA, K.V.; TAGANOV, K.I.; SHLEPKOVA, Z.I.

New possibilities for the spectral analysis of metals and alloys using  
a preliminary dosage by contact-spark discharge. Trudy po khim.i khim.  
tekh. no.1:26-30 '63. (MIRA 17:12)

L 33676-66	EWT(m)/EWF(:) /ETI	IJP(c)	JD/GD
ACC NR: AT6013543	(A)	SOURCE CODE: UR/0000/65/000/000/0085/0088	
AUTHOR: Lindstrom, I. S.; Sventitskiy, N. S.; Shlepkova, Z. I.			
ORG: None			
TITLE: Spectral determination of <u>oxygen</u> in <u>titanium</u> from lines in the vacuum region of the spectrum			
SOURCE: <u>Ural'skoye soveshchaniye po spektroskopii</u> . 4th, Sverdlovsk, 1963. Materialy. Moscow, Izd-vo Metallurgiya, 1965, 85-86			
TOPIC TAGS: spectrum determination, oxygen, titanium, spectrographic analysis, ionized gas, vacuum technique			
ABSTRACT: The authors study spectral determination of oxygen in titanium. An SP-99 normal-incidence vacuum spectrograph was used for photographing the spectra of the specimens in the ultraviolet region from 50 to 300 m $\mu$ . The diffraction grating was made of aluminum with 1200 lines/mm and a radius of curvature of 2 m. The spectra were photographed on "panchrome-11" film sensitized with sodium salicylate. Exposure consisted of 15 pulses. A schematic diagram and description are given of the low- voltage pulse generators used for producing the vacuum discharge. The comparison standards were 5 specimens of commercial titanium with oxygen contents ranging from 0.02 to 1.0%. In the 70-100 m $\mu$ vacuum region, oxygen lines may be observed with			
Card 1/2			

L 33676-66

ACC NR: AT6013543

varying degrees of ionization--from OII to OIV. Analytical curves for oxygen determination were plotted with respect to 8 oxygen lines taking 2 titanium lines for comparison. The proposed method for spectral determination of oxygen in titanium provides more intense oxygen lines in the vacuum region of the spectrum with a low-intensity background. The method also gives a high concentration sensitivity for oxygen and a small relative error for oxygen determination. In addition to this, the amount of oxygen in the vacuum may be disregarded, while it is nearly impossible to achieve a high degree of purity for the neutral gases used in discharge chambers.  
Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 06Jul65/ ORIG REF: 011/ OTH REF: 007

Card 2/2 *WKA*

SOURCE: ... .

"Decline of the Level of the Caspian Sea," Iz Akademii Nauk Azerbaydzhan SSR, Department of Geological-Chemical Sciences and Petroleum, No 11, 1946 (61-65).  
(Metecnologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

DOLGOLENKO, Pavel Valer'yanovich, kandidat tekhnicheskikh nauk, dotsent;  
RUSEYKIN, Boris Petrovich, dotsent; OSIPOVICH, F.A., redaktor;  
URUSHEV, V.M., retsenzent; POKROVSKIY, D.D., retsenzent; SHIPE-  
NIKOVA, Z.V., redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor

[Technology of marine engines construction] Tekhnologiya sudo-  
vogo mashinostroenija. Moskva, Izd-vo "Rechnoi transport,"  
1955. 373 p. (MLRA 9:4)

(Marine engines)

SHLEPOV, A.V., zasluzhenyy vrach RSFSR

Organization of first aid in accidents involving miners.  
Zdrav. Ross. Feder. 2 no.7:25-28 Jl'58 (MIRA 11:7)

1. Glavnnyy khirurg Shakhtinskogo gorzdravotdela.  
(SHAKHTY--FIRST AID IN ILLNESS AND INJURY)

SHLEPOV, S.G., inzhener, redaktor; GORSHKOV, A.P., redaktor; PERSON, M.N.,  
tekhnicheskiy redaktor

[Planner's manual for structural designs] Spravochnik proektirov-  
shchika organizatsii stroitel'stva. Moskva, Gos.izd-vo lit-ry po  
stroitel'stvu i arkhitekture. Vol.2. [Electric supply, air com-  
pressors, fuel supply, water supply] Elektrosnabzhenie, snabzhenie  
szhaym vozdukhom, teplosnabzhenie, vodosnabzhenie stroitel'stva.  
Izd.-oe. 1952. 93 p. [Microfilm]

(MIRA 9:1)

1. Vsesoyuznaya kontora tipovogo proektirovaniya i tekhnicheskikh  
issledovaniy.  
(Building)

SATANOVSKIY, L.G., inzh., red.; SHLEPOV, S.G., inzh. red.; PEVZNER, A.S.,  
red. izd-va; TETYERMAN, T.M., tekhn. red.

[Manual of consolidated indices of the cost of planning and research]  
Spravochnik ukrupnennykh pokazatelei stoinosti proektnykh i izyska-  
tel'skikh rabot. Vvoditsia v deistvie s 1 ianvaria 1958 g. [Special  
planning] Spetsial'nye proektnye raboty. Moskva, Gos. izd-vo lit-ry  
po stroit., arkhit. i stroit. materialam. 1958. 99 p. (MIRA 11:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam  
stroitel'stva.  
(Building)

BELYANKIN, D.S., akademik; OL'SHANSKIY, Ya.I.; SHLEPOV, V.K.

System Cr - Cr<sub>2</sub>O<sub>3</sub>. Dokl.AN SSSR 91 no.3:561-564 J1 '53. (MLRA 6:7)

1. Institut geologicheskikh nauk Akademii nauk SSSR (for Ol'shanskiy and Shlepov). 2. Akademiya nauk SSSR (for Belyankin).  
(Chromium) (Systems (Chemistry))

SHLEPOV, V. K.

USSR/Chemistry

Card : 1/1

Authors : Ol'shanskiy, Ya. I., Tsvetkov, A. I., and Shlepov, V. K.

Title : Certain facts about the ternary Cr-Cr<sub>2</sub>O<sub>3</sub>-CaO system

Periodical : Dokl. AN SSSR, 96, Ed. 5, 1007 - 1009, June 1954

Abstract : (An investigation of systems containing chromic oxide is described). Report relates the results obtained in the study of one of the important chromium containing systems namely, Cr-Cr<sub>2</sub>O<sub>3</sub>-CaO. The boundary systems of the Cr-Cr<sub>2</sub>O<sub>3</sub>-CaO system has a binary CaO-Cr<sub>2</sub>O<sub>3</sub> compound, which melts without decomposition. The temperature of one invariant equilibrium point as determined by the method of capillary separation of the liquid phase. Four references. Graph.

Institution : Acad. of Sc. USSR, Institute of Geological Sciences

Presented by : D. I. Sheherbakov, March 10, 1954, Academician

SHIBOV, V. K.

27 21 27

6

The system  $\text{CaO-Cr}_2\text{O}_3-\text{Cr}$ . Ya. I. Olsanski, A. I. Tsvetkov, and V. K. Shlenov. Trudy Inst. Geol. Rudnykh Mestorozhden., Petrog. Mineral., i Geokhim. 1956, No. 6, p. 25. A diagram of the binary system  $\text{Cr-Cr}_2\text{O}_3$  characterized by the eutectic  $\text{Cr} + \text{Cr}_2\text{O}_3 +$  liquid ( $1660^\circ$ , compn. of liquid:  $20\% \text{Cr} + 80\% \text{Cr}_2\text{O}_3$ ) and an equil. area of 2 liquid phases with solid  $\text{Cr}$  ( $1810^\circ$ , compn. of the liquids:  $99\%$

$\text{Cr} + 1\% \text{Cr}_2\text{O}_3$  and  $23\% \text{Cr} + 75\% \text{Cr}_2\text{O}_3$ ) are given. Also a diagram of the ternary system  $\text{Cr-Cr}_2\text{O}_3-\text{CaO}$  with a eutectic  $\text{Cr} + \text{CaO} + \text{Cr}_2\text{O}_3 +$  liquid ( $1750^\circ$ , compn. of liquid  $13\% \text{Cr} + 57\% \text{Cr}_2\text{O}_3 + 30\% \text{CaO}$ ) and eutectic  $\text{Cr} + \text{Cr}_2\text{O}_3 + \text{CaO-Cr}_2\text{O}_3 +$  liquid ( $1060^\circ$ , compn. of liquid  $20\% \text{Cr} + 80\% \text{Cr}_2\text{O}_3$ ) is presented. The 2nd eutectic coincides closely with the liquid compn. of the binary eutectic in the system  $\text{Cr-Cr}_2\text{O}_3$ . The transition temp. of the  $\alpha-\beta$  phases of  $\text{CaO-Cr}_2\text{O}_3$  is detd. ( $1570^\circ$ ). Considerable solv. of metallic  $\text{Cr}$  in melts contg.  $\text{CaO}$  and  $\text{Cr}_2\text{O}_3$  is established.

A. Vulhorst

for [unclear]

SHLEPOV, V. K. and K. M. FEODOT'YEV

"Slat Solubility of Certain Elements in Supercritical Water Vapor" p. 230

"Synthesis and Structure of Hydrotalcites containing Simple and Complex Heavy Metal Cations" p. 38

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Izd-vo AN SSSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

ZHURAVLEV, Vsevolod Sergeyevich; SHATSKIY, N.S., nauchnyy rukovoditel', akademik;  
KOSYGIN, Yu.A.; otv.red.; SHLEPOV, V.K., red.; KASHINA, P.S., tekhn.red.

[Basic characteristics of the subsurface tectonics of the Caspian  
syneclyse] Osnovnye cherty glubinnoi tektoniki Prikaspiskoi sineklyzy.  
Moskva, Izd-vo Akad.nauk SSSR, 1960. 271 p. (Akademika nauk SSSR.  
Geologicheskii institut. Trudy, no.42) (MIRA 14:4)

1.Chlen-korrespondent AN SSSR (for Kosygin).  
(Caspian Sea region—Geology)

SHLEPOV, V.M.; YUMSHTYK, M.G.

Introducing semiautomatic milling-machine unit for machining  
separator grooves. Biul.tekh.-ekon.inform.Gos.nauch.-issl.  
inst.nauch.i tekhn.inform. 18 no.11:16-17 N '65.  
(MIRA 18:12)

SHLEPOV, V.M.; YUMSHTYK, M.G.; BOGOMOLOV, L.D.

Unifying milling operations. Biul. tekhn.-ekon. inform. Gos.  
nauch.-issl. inst. nauch. i tekhn. inform. 18 no. 12:27-28  
D '65. (MIRË 19:1)

VINOGRADOV, B.N.; SHLEPOVA, N.K.

Preparation of transparent and polished thin sections of  
new building materials. Sbor. trud. VNIINSM no.4:114-120  
'61. (MIRA 15:2)  
(Building materials--Testing)

TEMIROV, E.S.; SHLEPOVA, T.A. (Rostov-na Donu)

Spontaneous recovery from subdural hematomas. Vop.neirokhir.  
no.5:42-45 '61. (MIRA 14:11)

1. Klinika nervnykh bolezney i neyrokhirurgii Rostovskogo-na-Donu  
meditsinskogo instituta.  
(DURA MATER-TUMORS) (HEMATOMAS)

Appl. math. & mech. polytechnicj. publ. works by Moscow Univ. math. & phys. faculty (The first part of introducing assembly line methods in a technical faculty of instruments) Moscow, Izd-vo "Znaniye," 1952.

11. i lit., li yrs. (Vsesoyuznoye obshchestvo po  
pravitelstvennym, politicheskikh i vychyaykikh uravlyaniy, seriya II,  
no. 1).

85376

94300 (3203, 1043, 1143)

S/081/60/000/017/012/016  
A006/A001

Translation from Referativnyy zhurnal, Khimiya, 1960, No. 17, p. 350, # 70277

AUTHORS: Turkulets, V.I., Shleptsova, Z.V.

TITLE: On the Effect of Chemical Impurities on the Properties of Semiconductor Thermoresistances 21

PERIODICAL: V st.: Poluprovodnik, thermosoprotivleniya. Moscow-Leningrad,  
Gosenergoizdat, 1959, pp. 56-62

TEXT: The authors studied the effect of chemical impurities on the electrical properties of thermoresistances on titanium-magnesium specimens, where  $TiO_2$  was the basis semiconductor component. The following admixtures were used:  $V_2O_5$ ,  $Fe_2O_3$ ,  $Al_2O_3$ ,  $CuO$ ,  $MoO_3$ ,  $MnO_2$ ,  $SiO_2$ . They were introduced in various concentrations. The mass was mixed with an organic binder, passed through the metallic draw plate of a vertical press and the specimens obtained were simultaneously annealed under the same temperature conditions in hydrogen furnaces. The experiments showed that the specific resistance and temperature sensitivity varied within a wide range depending on the type of admixture and the concentration. The

Carri 1/2

85376

S/081/60/000/017/012/016  
A006/A001

On the Effect of Chemical Impurities on the Properties of Semiconductor Thermo-resistances

addition of metal oxides with a valence of the metallic ion  $> 4$ , causes a considerable rise in the magnitude of the specific resistance; metal oxides with a valence of  $< 4$  raise the magnitude of specific resistance.  $\times$

G.G.

Translator's note: This is the full translation of the original Russian abstract.

Carri 2/2

ZHUKHOVITSKIY, A.A.; TURKEL'TAUB, N.M.; GAYYER, M.; LAGASHKINA, M.N.;  
MALYASOVA, L.A.; SHLEPUZHNIKOVA, G.P.

Vacancy chromatography. Zav.lab. 29 no.1:8-13 '63.  
(MIRA 16:2)

1. Institut yedernoy geofiziki i geokhimii.  
(Chromatographic analysis)

18(5,4)

SOV/125-59-5-6-16

AUTHOR: Karasik, N.Ya., Candidate of Technical Sciences,  
Shlepyanova, N.Ye., Engineer

TITLE: Physical-Chemical Investigations of Modifications of  
 $\delta$ -Phase in Austenite-Ferrite Weld Metal

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 5 (74)  
pp 55-61 (USSR)

ABSTRACT: The article presents the results of a chemical and radiographical investigation of the phase composition of weld metal type TsT-15 before and after different heat treatments. The deciphering of radiographs of different forms of  $\delta$ -phase are shown. A way of electrolytic isolation of  $\delta$ -phase in a solution of hydrochloric acid at little current density is proposed. Mentioned is A.G. Alten and his investigations in 1954 (Ref. 5). Two samples were investigated, one of pure austenite, the other with about 5% ferrite. Here is mentioned the electrolytic separation of  $\delta$ -phase, made by T.P. Hoar and K.W.J. Bowen. The investigation showed,

Card 1/2

S9

SOV/125-~~12~~-5-6/16

Physical-Chemical Investigations of Modifications of  $\delta$ -Phase in  
Austenite-Ferrite Weld Metal

that the development of  $\delta$ -phase in the weld-metal is more intensive in the presence of  $\alpha$ -phase.(ferrite). In the weld metal there are two modifications of  $\alpha$ -phase with a proportion iron to chrome, near to 1 and 2. The regular connection between the quantity of  $\alpha$ -phase, developed during the process of ageing and the impact strength of the weld metal is shown. In the presence of 6-9%  $\delta$ -phase, seldom is an impact strength of 2 Kgm/cm<sup>2</sup> reached. There are 1 figure, 3 graphs, 4 tables and 9 references, 7 of which are Soviet and 2 English

ASSOCIATION: TsKTI imeni I.I. Polzunova (TsKTI imeni I.I.Polzunov).

SUBMITTED: November 1, 1958

Card 2/2

05726  
SOV/32-25-10-15/6318 (7)  
AUTHORS:

Karasik, N. Ya.; Shlepyanova, N. Ye.

TITLE:

Methods of Electrolytic Separation of the σ-Phase From a  
Built-up Metal

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1198 - 1199  
(USSR)

ABSTRACT:

The present paper reports on experiments carried out at the TsKTI (see Association) under the direction of V. N. Zemzin concerning the welding of heat-resistant steels. It was found that the methods indicated in publications (Ref 2) for the electrolytic separation of the σ-phase and the solid α-γ-solution in hydrochloric acid are not applicable to built-up metals. A built-up metal of two compositions of type 19-10-1 Nb was investigated. One of the alloys was purely austenitic, the other one contained about 5% ferrite. The built-up metal was investigated after various thermal preliminary treatments. For separating the σ-phase, the following conditions proved to be most convenient: anodic dissolution of the built-up metal at a current density of  $0.02 \text{ A/cm}^2$ , 20% hydrochloric acid as an electrolyte, repeated ice-cooling for 1-1.5 hours in the course

Card 1/2

25(1)

AUTHORS:

Karasik, N.Ya. and Shlepyanova, N.Ye.S/125/60/000/03/006/018  
D042/D001

TITLE:

The Influence of the Ferrite Constituent on the Formation  
of the -Phase in Weld Metal

PERIODICAL:

Avtomacheskaya svarka, 1960, Nr 3, pp 46-50

ABSTRACT:

Many authors have stated previously [Ref. 1-5] that the sigma phase can form in solid alpha and gamma solutions. Works have been consecrated to the study of the effect of alloy elements on the sigma formation, and on the effect of alloy elements on the solid solution [Ref. 6-9]. In the present work, the formation of the sigma phase in the solid solution [Ref. 10] is studied in weld metals 1Kh19N12M2F [electrodes KTI-5], 1 Kh19N9B [electrodes KTI-12] in relation with different quantities of the alpha phase in the solid solution [Ref. 10]. The research work which is being conducted at the TSKTI under different heat treatment [Ref. 10]. The work includes and the guidance of Candidates of Technical Sciences V.N. Zemzin and Ye.Ye. Levin on the heat resistance of austenito-ferrite

Card 1/4

/2000

CIA-RDP86-00513R001549710020-

S/125/60/000/03/006/018  
D042/D001The Influence of the Ferrite Constituent on the Formation of the -Phase in  
Weld Metal

weld metal. The study showed that the sigma phase in metal alloyed with molybdenum and vanadium (1Kh19N12M2F) forms, when passing through the intermediate phases  $\gamma$ , cubic  $Mn_23C_6$  and this metal, the increase of the initial quantity of ferrite in and with 8% of ferrite this applies to all heat conditions except the intermediate phases  $\gamma$ , cubic  $Mn_23C_6$  and niobium (1Kh19N9B) the intermediate phase narrows, niobium (1Kh19N9B) its quantity reaches 16%. In metal alloyed with process of ageing at 650°C its quantity reaches 16%. In metal alloyed with 5% ferrite the formation of the sigma phase takes place. In the Austenitization slows down the formation of the sigma phase takes place. In the first case, the quantity of the sigma phase decreases approximately to 3%, in the second, it remains rather high - 13% of the weight of

Card 2/4

S/125/60/000/03/006/018  
D042/D001

The Influence of the Ferrite Constituent on the Formation of the -Phase in  
Weld Metal

the metal (heat treatment of: 1000°C, 1 hour +800°,  
10 hours +650°, 1000 hours). In weld metal with increased  
carbon content (2Kh19N9MB), alloyed with molybdenum and niobium,  
stable carbide phases  $Me_{23}C_6$  and NbC are formed in the ageing  
process under 750°C. Metal of this type is the most stable in  
comparison with the two above compositions - the formation of  
the sigma phase in it takes place only in the process of long-  
time ageing at 750°C, and its quantity does not exceed 3 to  
4% of the weight of the metal. Reference is made to another  
article by Zemzin, V.N., Pivnik, Ye.M., and Yeroshkin, N.A.  
which is also published in this issue. There are 3 tables,  
3 graphs, and 11 Soviet references.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut im. Polzunova (Central  
Card 3/4 Boiler-Turbine Institute imeni Polzunov).

S/125/60/000/03/006/018  
D042/D001

The Influence of the Ferrite Constituent on the Formation of the -Phase in  
Weld Metal

SUBMITTED: September 7, 1959

Card 4/4



18-7500

S/129/61/000/002/006/014  
E193/E483

AUTHORS: Karasik, N.Ya., Engineer and Shlepyanova, N.Ye.

TITLE: The Effect of Alloying Elements on the Constitution of  
Cast Austenitic Steels.PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,  
1961, No.2, pp.28-30

TEXT: The object of the present investigation was to study the effect of molybdenum and tungsten, added singly or together, on the constitution of niobium-stabilized Cr-Ni steels. The composition of the steels studied A, B, V, G (A, B, V, G) is given (Table 1). The constitution of steels subjected to various heat treatments (normalizing at 1180°C, followed by ageing at 550 to 800°C for 24 to 6000 h) was determined by X-ray and chemical analysis of residues obtained by anodic dissolution of the appropriate experimental specimens. This was carried out in an electrolyte, consisting of a 20% solution of HCl, with an addition of 4 g of oxalic acid per 1 litre of the solution, at anodic current density of 40 mA/cm<sup>2</sup>. The following conclusions were reached. (1) In the presence of either tungsten or molybdenum, a carbide of a composition, described by the general formula

Card 1/3

89673

S/129/61/000/002/006/014  
E193/E483

The Effect of Alloying Elements on the Constitution of Cast Austenitic Steels

Me<sub>23</sub>C<sub>6</sub>, with the lattice parameter of 10.54 - 10.61 kX, is formed. (In the formula given above, Me = Fe + Cr + Ni + Mo or, in the case of steel containing tungsten but no molybdenum, Me = Fe + Cr + Ni + W). (2) When both tungsten and molybdenum are added to steel in the 3:1 ratio, in addition to the Me<sub>23</sub>C<sub>6</sub> phase (in this case Me = Fe + Cr + Ni + Mo + W), the Fe<sub>2</sub>(Mo,W) phase is formed after prolonged ageing at 750 or 800°C. (3) When molybdenum and tungsten are added in the 1:1 ratio, the Fe<sub>2</sub>(Mo,W) phase is formed already after 100 h at 650°C. In addition, an unidentified phase with a face-centered cubic lattice and lattice parameter of 4.28 kX appears in this type of steel. (4) In all the 4 steels studied, niobium is present mainly as carbide NbC. There are 3 figures, 5 tables and 5 references: 2 Soviet and 3 non-Soviet.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut imeni Polzunova  
(Central Boiler and Turbine Institute imeni Polzunov)

Card 2/3

S/129/61/000/002/006/014  
E193/E483

The Effect of Alloying Elements on the Constitution of Cast  
Austenitic Steels

Table 1.

*Таблица 1*  
Химический состав исследованных  
стали

обозначение стали	C	Si	Mn	Cr	Ni	Mo	W	Nb
А	0,12	0,31	0,48	14,66	15,48	—	2,74	0,85
Б	0,12	0,30	0,49	14,9	16,07	1,70	—	0,85
В	0,09	0,40	0,50	15,3	15,0	0,80	2,50	0,99
Г	0,09	0,40	0,50	15,3	15,0	1,86	1,32	0,99

Card 5/3

MEL'NIKOVA, I.S.; SHLEPYANOVA, N.Ye.

Methods for separating the  $\delta$ -phase from  $Me_{23}C_6$  carbide.  
Zav.lab. 27 no.10:1194-1195 '61. (MIRA 14:10)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy kot-  
loturbinnyy institut im. I. I. Polzunova.  
(Steel, Stainless)  
(Carbides)